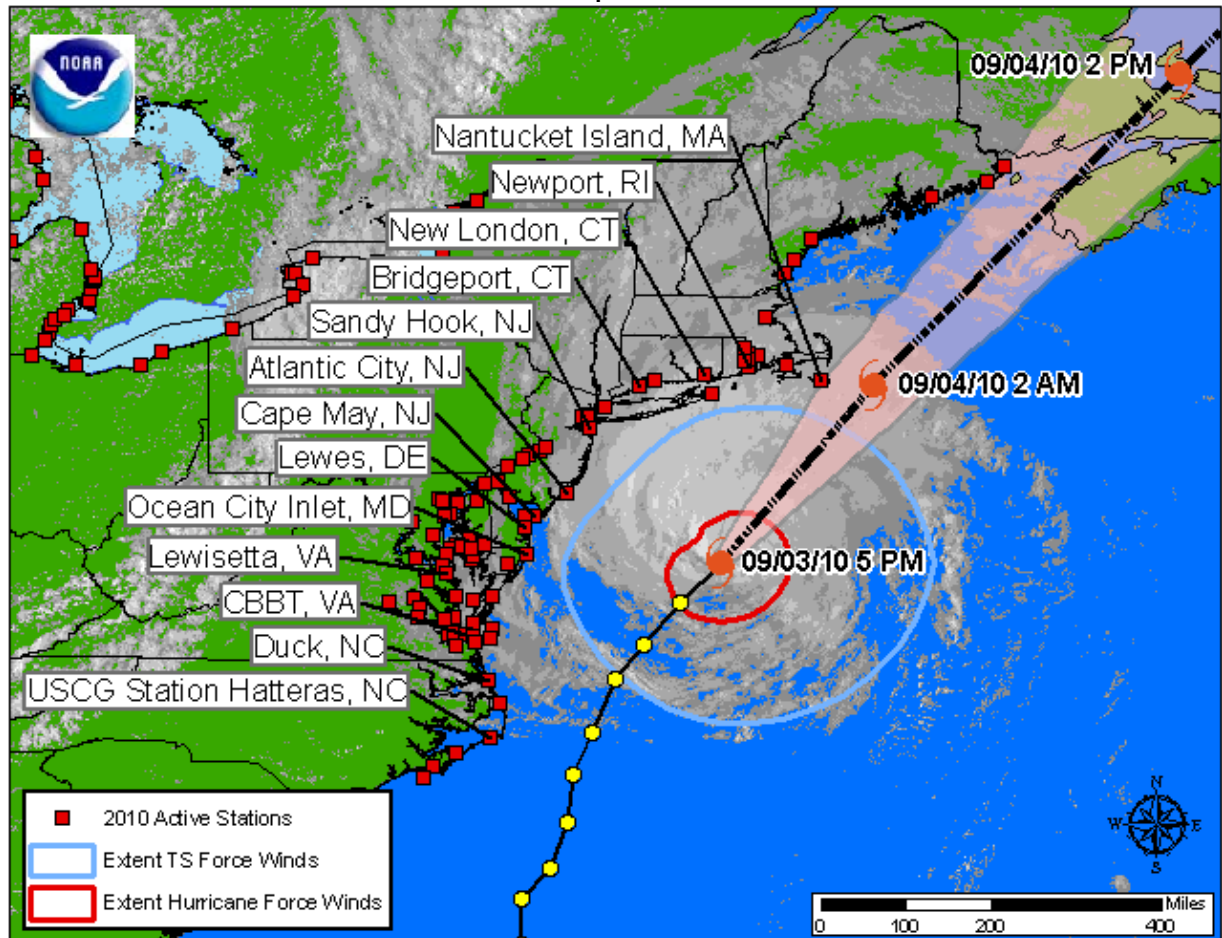




Hurricane EARL QuickLook
Posted: 18:00 EDT 09/03/2010

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 09/03/2010 18:00 EDT, water levels along the eastern U.S. coastline from North Carolina to southern Massachusetts are elevated and generally range between 0.5 and 1.5 feet above predictions. Water levels from North Carolina to Maryland are falling, while levels from Delaware to Massachusetts are rising. Water levels in the middle to upper Chesapeake Bay are only slightly elevated. Thus far, the largest water level effects from Earl have been felt at USCG Station Hatteras, NC where preliminary water levels reached over 4 feet above predicted.

Wind speeds from North Carolina to Delaware have decreased and generally range from 10-20 knots with slightly higher gusts. Winds from New Jersey to Massachusetts are generally 5-15 knots, though winds are now increasing at Sandy Hook, NJ and Nantucket Island, MA. Barometric pressure is falling along the coast from Delaware northward to Massachusetts and is rising from Maryland southward to North Carolina.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

Lewes, DE: Next predicted high tides are 3.65 ft (1.11 m) at 09/04/2010 05:11 EDT and 4.96 ft (1.51 m) at 09/04/2010 17:45 EDT.

Cape May, NJ: Next predicted high tides are 4.33 ft (1.32 m) at 09/04/2010 05:06 EDT and 5.72 ft (1.74 m) at 09/04/2010 17:37 EDT.

Atlantic City, NJ Next predicted high tides are 3.56 ft (1.08 m) at 09/04/2010 04:04 EDT and 4.90 ft (1.49 m) at 09/04/2010 16:31 EDT.

Sandy Hook, NJ: Next predicted high tides are 4.34 ft (1.32 m) at 09/04/2010 04:23 EDT and 5.39 ft (1.64 m) at 09/04/2010 16:44 EDT.

Bridgeport, CT: Next predicted high tides are 7.12 ft (2.17 m) at 09/03/2010 19:18 EDT and 6.41 ft (1.95 m) at 09/04/2010 08:01 EDT.

New London, CT: Next predicted high tides are 2.43 ft (0.74 m) at 09/04/2010 06:12 EDT and 3.23 ft (0.98 m) at 09/04/2010 18:40 EDT.

Newport, RI: Next predicted high tides are 3.24 ft (0.99 m) at 09/04/2010 04:20 EDT and 3.98 ft (1.21 m) at 09/04/2010 16:49 EDT.

Nantucket, MA: Next predicted high tides are 3.72 ft (1.13 m) at 09/03/2010 20:10 EDT and 2.75 ft (0.84 m) at 09/04/2010 08:53 EDT.

Ocean City Inlet, MD: Next predicted high tides are 1.93 ft (0.59 m) at 09/04/2010 04:25 EDT and 2.55 ft (0.78 m) at 09/04/2010 17:23 EDT.

Chesapeake Bay Bridge Tunnel, VA: Next predicted high tides are 2.45 ft (0.75 m) at 09/04/2010 04:39 EDT and 3.11 ft (0.95 m) at 09/04/2010 17:18 EDT.

Lewisetta, VA: Next predicted high tides are 1.65 ft (0.50 m) at 09/03/2010 21:51 EDT and 1.50 ft (0.46 m) at 09/04/2010 10:04 EDT.

Duck, NC: Next predicted high tides are 3.03 ft (0.92 m) at 09/04/2010 03:51 EDT and 3.98 ft (1.21 m) at 09/04/2010 16:25 EDT.

USCG Station Hatteras, NC: Next predicted high tides are 0.49 ft (0.15 m) at 09/04/2010 05:21 EDT and 0.53 ft (0.16 m) at 09/04/2010 18:28 EDT.

For additional data, please see the Center for Operational Oceanographic Products & Services website. For more information or archived products and reports, please see the Storm QuickLook homepage.

Analyst:PFF

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

HURRICANE EARL ADVISORY NUMBER 38

500 PM EDT FRI SEP 03 2010

...HURRICANE EARL REMAINS LARGE BUT IS LOSING ITS PUNCH...

WATCHES AND WARNINGS

A HURRICANE WARNING IS IN EFFECT FOR...

*** WOODS HOLE EASTWARD AROUND CAPE COD TO SAGAMORE BEACH
MASSACHUSETTS...INCLUDING MARTHAS VINEYARD AND NANTUCKET ISLAND**

A HURRICANE WATCH IS IN EFFECT FOR...

*** NOVA SCOTIA FROM ECUM SECUM WESTWARD TO DIGBY**

A TROPICAL STORM WARNING IS IN EFFECT FOR...

*** THE COAST OF LONG ISLAND NEW YORK FROM FIRE ISLAND INLET EASTWARD ON THE
SOUTH SHORE AND PORT JEFFERSON HARBOR EASTWARD ON THE NORTH SHORE**

*** NEW HAVEN CONNECTICUT TO WEST OF WOODS HOLE MASSACHUSETTS... INCLUDING
BLOCK ISLAND**

*** NORTH OF SAGAMORE BEACH TO HULL MASSACHUSETTS**

*** STONINGTON MAINE TO EASTPORT MAINE**

*** THE ENTIRE COAST OF NOVA SCOTIA**

*** PRINCE EDWARD ISLAND**

*** NEW BRUNSWICK FROM THE U.S./CANADA BORDER EASTWARD TO FORT LAWRENCE
AND FROM SHEDIAC TO TIDNISH**

*** THE MAGDALEN ISLANDS**

A TROPICAL STORM WATCH IS IN EFFECT FOR...

*** POINT ESCUMINAC TO SHEDIAC NEW BRUNSWICK**

**FOR STORM INFORMATION SPECIFIC TO YOUR AREA IN THE UNITED
STATES...INCLUDING POSSIBLE INLAND WATCHES AND WARNINGS...PLEASE MONITOR
PRODUCTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICE.
FOR STORM INFORMATION SPECIFIC TO YOUR AREA OUTSIDE THE UNITED
STATES...PLEASE MONITOR PRODUCTS ISSUED BY YOUR NATIONAL METEOROLOGICAL
SERVICE.**

DISCUSSION AND 48-HOUR OUTLOOK

**AT 500 PM EDT THE CENTER OF HURRICANE EARL WAS LOCATED ABOUT 230 MI SSW OF
NANTUCKET MASSACHUSETTS. EARL IS MOVING TOWARD THE NORTHEAST NEAR 22
MPH. AN INCREASE IN FORWARD SPEED WITH A TURN TOWARD THE NORTHEAST IS
EXPECTED IN THE NEXT 12 TO 24 HOURS. ON THE FORECAST TRACK...EARL WILL BE
VERY NEAR OR JUST EAST OF CAPE COD LATER TONIGHT AND ON THE COAST OF NOVA
SCOTIA ON SATURDAY.**

MAXIMUM SUSTAINED WINDS ARE NEAR 80 MPH WITH HIGHER GUSTS. EARL IS A

CATEGORY ONE HURRICANE ON THE SAFFIR-SIMPSON SCALE. ADDITIONAL WEAKENING IS FORECAST...BUT EARL IS EXPECTED REMAIN A LARGE TROPICAL CYCLONE AS IT APPROACHES SOUTHEASTERN NEW ENGLAND AND NOVA SCOTIA.

HURRICANE FORCE WINDS EXTEND OUTWARD UP TO 70 MILES FROM THE CENTER...AND TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 205 MILES.

ESTIMATED MINIMUM CENTRAL PRESSURE IS 961 MB...28.38 INCHES.

HAZARDS AFFECTING LAND

WINDS...ON THE FORECAST TRACK...MOST OF THE HURRICANE FORCE WINDS WILL REMAIN OFFSHORE OF CAPE COD...HOWEVER ONLY A SMALL DEVIATION TO THE LEFT WOULD BRING HURRICANE CONDITIONS TO THE HURRICANE WARNING AREA TONIGHT.

STORM SURGE...WATER LEVELS COULD RISE BY AS MUCH AS 1 TO 3 FEET ABOVE GROUND LEVEL FROM NEW JERSEY NORTHWARD TO CAPE COD INCLUDING LONG ISLAND SOUND. NEAR THE COAST...THE SURGE WILL BE ACCOMPANIED BY LARGE AND DESTRUCTIVE WAVES. WATER LEVELS WILL CONTINUE TO SUBSIDE FROM THE OUTER BANKS OF NORTH CAROLINA TO DELAWARE BAY.

RAINFALL...EARL IS EXPECTED TO PRODUCE 1 TO 3 INCHES RAINFALL ACCUMULATIONS OVER EASTERN NEW ENGLAND...WITH ISOLATED MAXIMUM AMOUNTS OF 5 INCHES POSSIBLE.

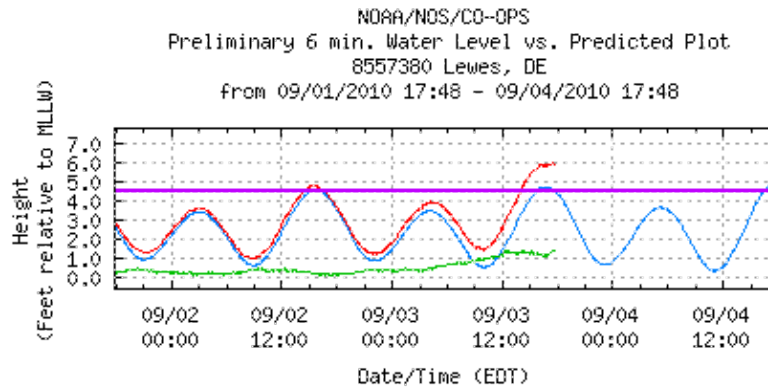
SURF...LARGE SWELLS FROM EARL WILL CONTINUE TO AFFECT THE EAST COAST OF THE UNITED STATES TONIGHT. THESE SWELLS WILL LIKELY CAUSE DANGEROUS SURF CONDITIONS AND RIP CURRENTS.

FORECASTER AVILA

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Lewes - Water Level](#), [Lewes - Winds](#), [Lewes - Barometric](#), [Cape May - Water Level](#), [Cape May - Winds](#), [Cape May - Barometric](#), [Cape May - Air/Water Temp](#), [Atlantic City - Water Level](#), [Atlantic City - Barometric](#), [Atlantic City - Air/Water Temp](#), [Sandy Hook - Water Level](#), [Sandy Hook - Winds](#), [Sandy Hook - Barometric](#), [Sandy Hook - Air/Water Temp](#), [Bridgeport - Water Level](#), [Bridgeport - Winds](#), [Bridgeport - Barometric](#), [New London - Water Level](#), [New London - Winds](#), [New London - Barometric](#), [New London - Air/Water Temp](#), [Newport - Water Level](#), [Newport - Winds](#), [Newport - Barometric](#), [Nantucket Island - Water Level](#), [Nantucket Island - Winds](#), [Nantucket Island - Barometric](#), [Ocean City Inlet - Water Level](#), [Ocean City Inlet - Winds](#), [Ocean City Inlet - Barometric](#), [Lewisetta - Water Level](#), [Lewisetta - Winds](#), [Lewisetta - Barometric](#), [Chesapeake Bay Bridge Tunnel - Water Level](#), [Chesapeake Bay Bridge Tunnel - Winds](#), [Chesapeake Bay Bridge Tunnel - Barometric](#), [Duck - Water Level](#), [Duck - Winds](#), [USCG Station Hatteras - Water Level](#), [USCG Station Hatteras - Winds](#), [USCG Station Hatteras - Barometric](#),

Lewes, DE - [Return to List](#)

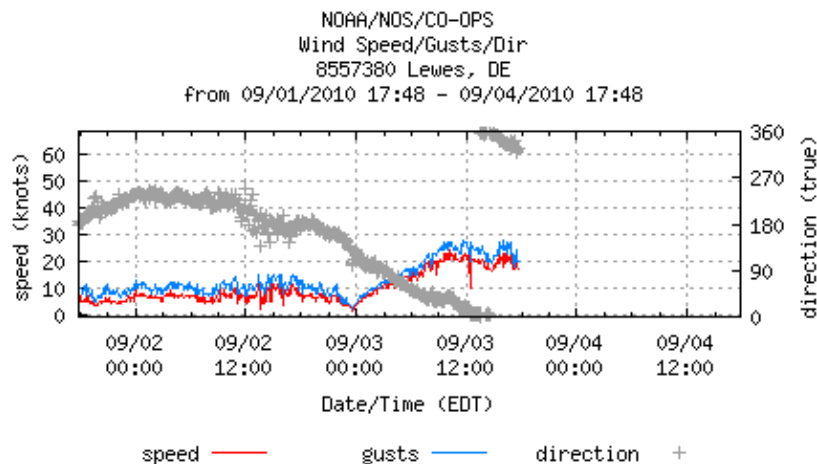


Last Observed Sample: 09/03/2010 17:36 (EDT)

Relative to **MLLW**: **Observed: 5.91 ft. Predicted: 4.56 ft. Residual: 1.35 ft.**

Historical Maximum Water Level: Mar 6 1962, 4.57 ft. above **MHHW**

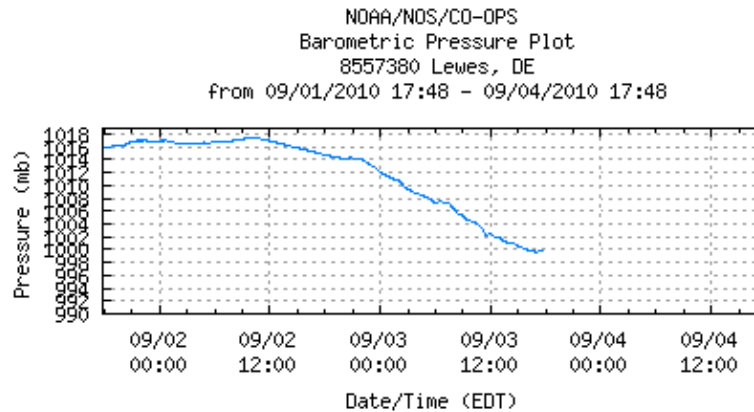
Lewes, DE - [Return to List](#)



Last Observed Sample: 09/03/2010 17:36 (EDT)

Wind Speed: 17 knots Gusts: 20 knots Direction: 325° T

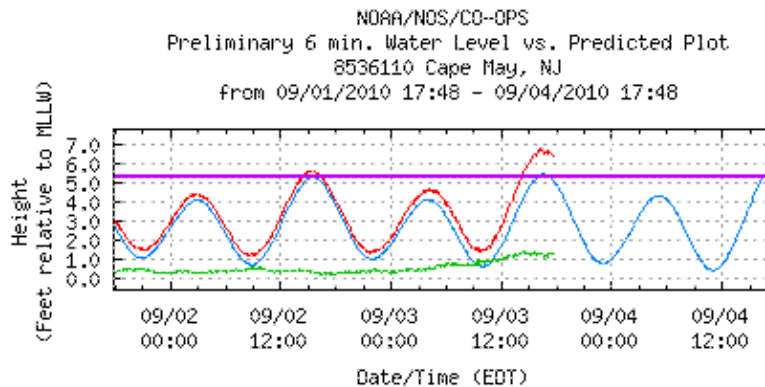
Lewes, DE - [Return to List](#)



Last Observed Sample: 09/03/2010 17:36 (EDT)

Barometric Pressure: 999.7 mb

Cape May, NJ - [Return to List](#)

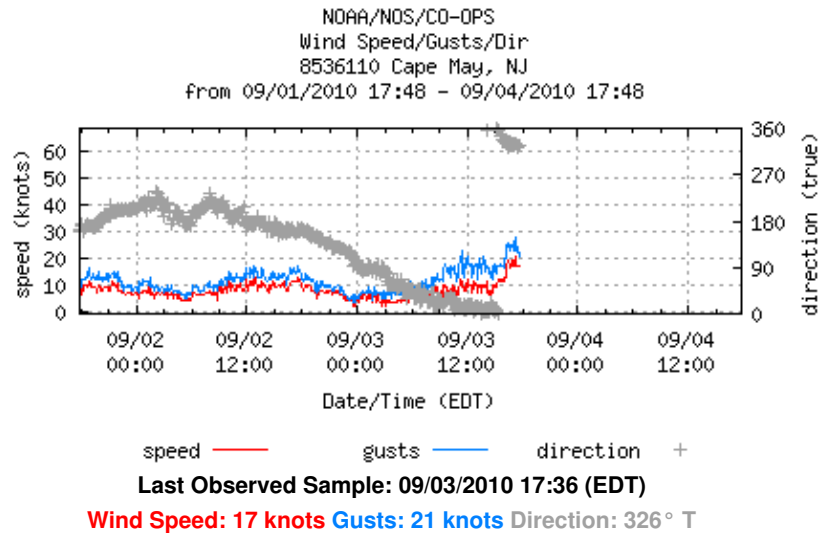


Last Observed Sample: 09/03/2010 17:36 (EDT)

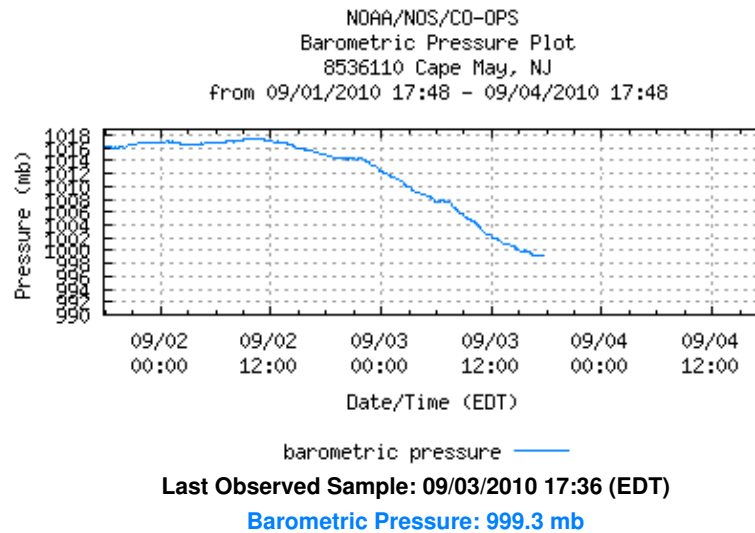
Relative to **MLLW**: **Observed: 6.38 ft.** **Predicted: 5.14 ft.** **Residual: 1.24 ft.**

Historical Maximum Water Level: Sep 27 1985, 3.36 ft. above **MHHW**

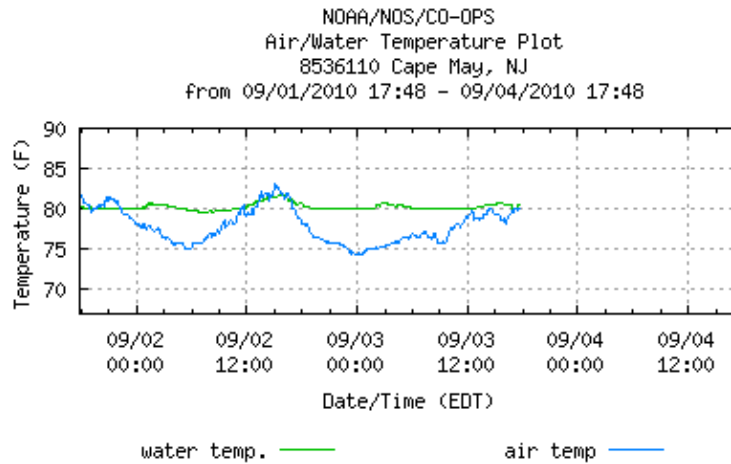
Cape May, NJ - [Return to List](#)



Cape May, NJ - [Return to List](#)



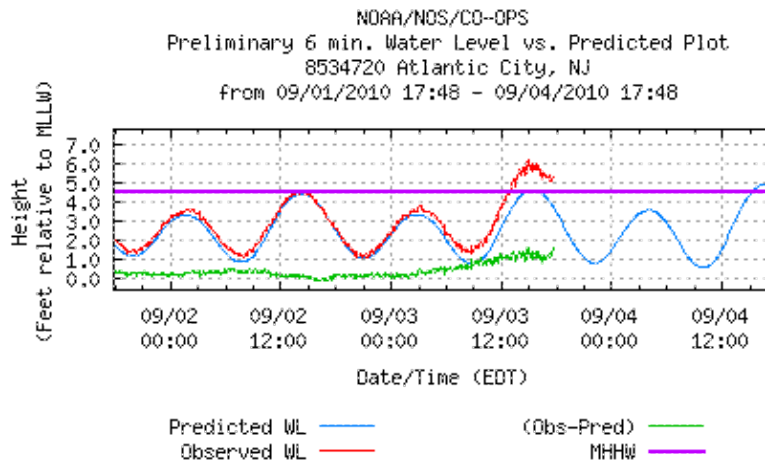
Cape May, NJ - [Return to List](#)



Last Observed Sample: 09/03/2010 17:36 (EDT)

Water Temperature: 80.5° F Air Temperature: 80.1° F

Atlantic City, NJ - [Return to List](#)

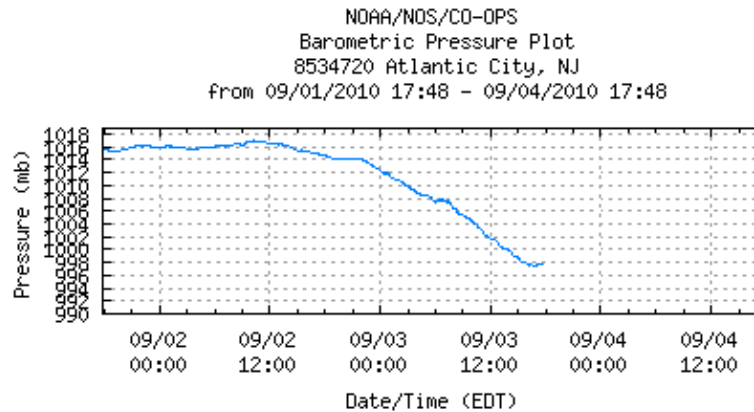


Last Observed Sample: 09/03/2010 17:36 (EDT)

Relative to **MLLW**: Observed: 5.33 ft. Predicted: 3.75 ft. Residual: 1.58 ft.

Historical Maximum Water Level: Dec 11 1992, 4.38 ft. above **MHHW**

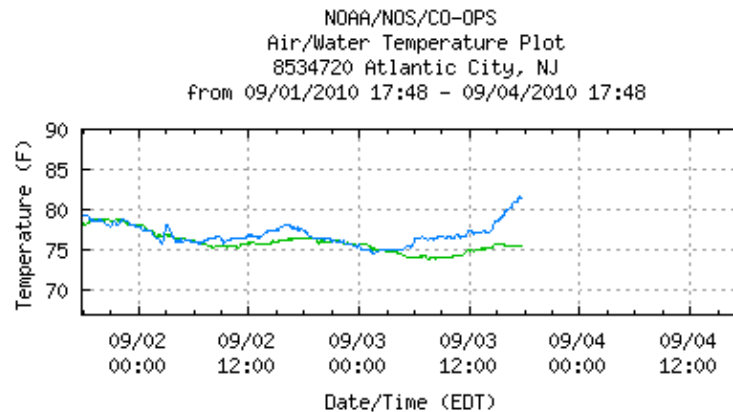
Atlantic City, NJ - [Return to List](#)



Last Observed Sample: 09/03/2010 17:36 (EDT)

Barometric Pressure: 997.7 mb

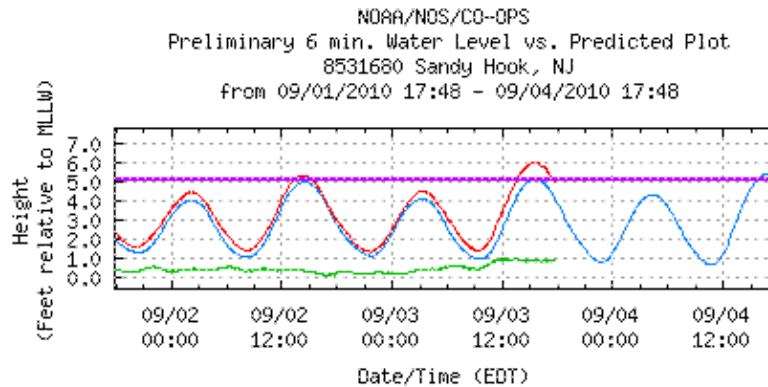
Atlantic City, NJ - [Return to List](#)



Last Observed Sample: 09/03/2010 17:36 (EDT)

Water Temperature: 75.6° F Air Temperature: 81.5° F

Sandy Hook, NJ - [Return to List](#)

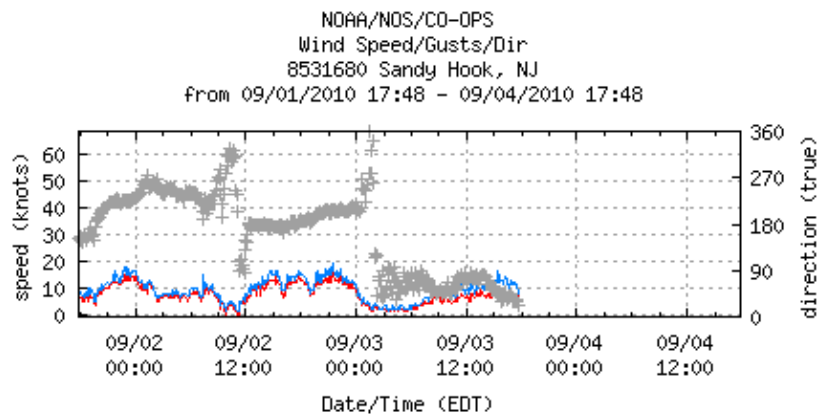


Last Observed Sample: 09/03/2010 17:36 (EDT)

Relative to **MLLW**: **Observed: 5.05 ft. Predicted: 4.20 ft. Residual: 0.85 ft.**

Historical Maximum Water Level: Sep 12 1960, 4.86 ft. above **MHHW**

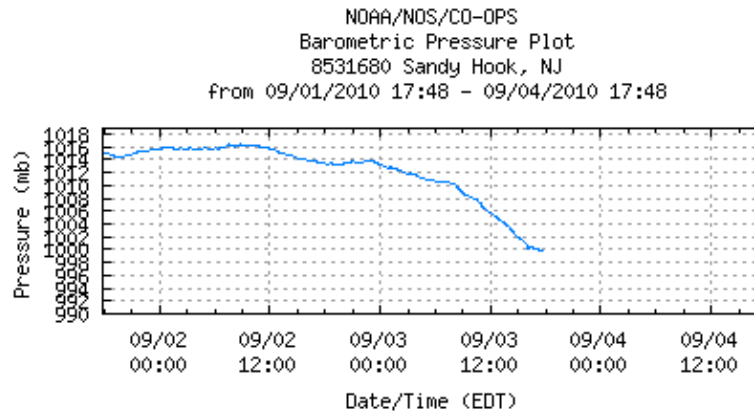
Sandy Hook, NJ - [Return to List](#)



Last Observed Sample: 09/03/2010 17:36 (EDT)

Wind Speed: 6 knots Gusts: 8 knots Direction: 021° T

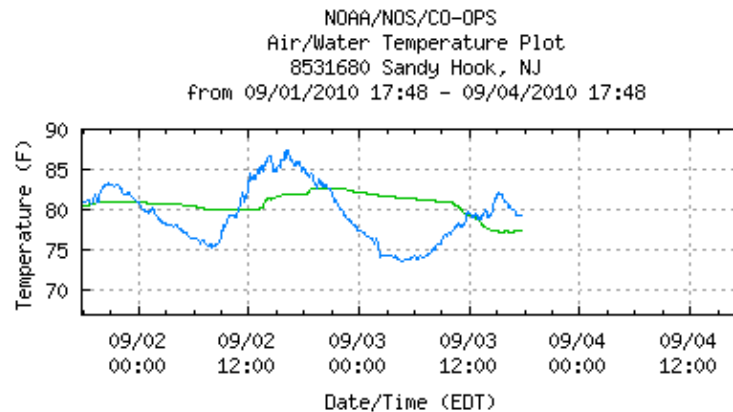
Sandy Hook, NJ - [Return to List](#)



Last Observed Sample: 09/03/2010 17:36 (EDT)

Barometric Pressure: 999.8 mb

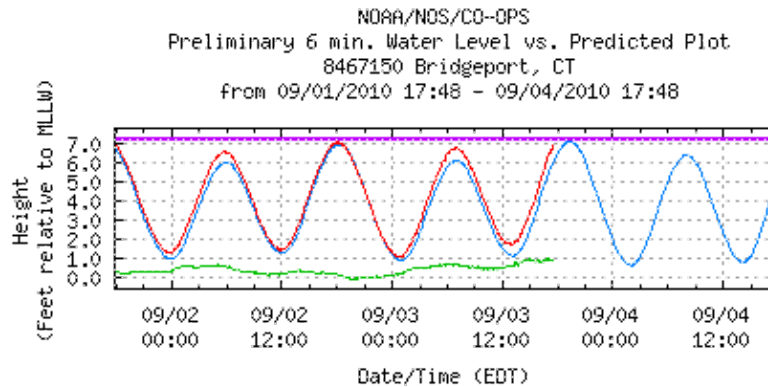
Sandy Hook, NJ - [Return to List](#)



Last Observed Sample: 09/03/2010 17:36 (EDT)

Water Temperature: 77.4° F Air Temperature: 79.5° F

Bridgeport, CT - [Return to List](#)



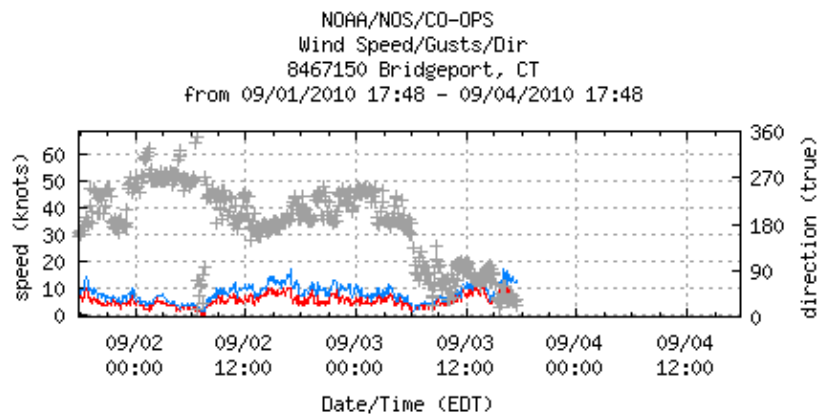
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 09/03/2010 17:30 (EDT)

Relative to **MLLW**: **Observed: 6.93 ft.** **Predicted: 6.03 ft.** **Residual: 0.90 ft.**

Historical Maximum Water Level: Sep 21 1938, 4.95 ft. above **MHHW**

Bridgeport, CT - [Return to List](#)

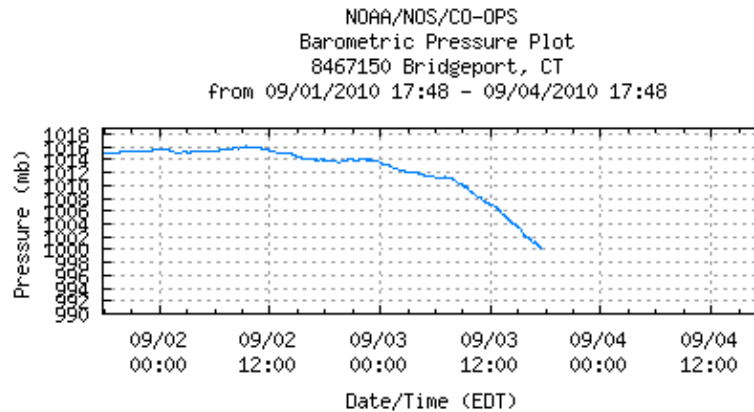


speed — gusts — direction +

Last Observed Sample: 09/03/2010 17:30 (EDT)

Wind Speed: 8 knots **Gusts: 13 knots** **Direction: 021° T**

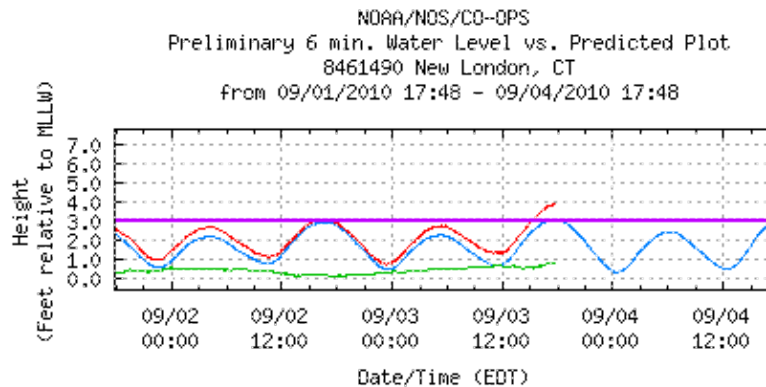
Bridgeport, CT - [Return to List](#)



Last Observed Sample: 09/03/2010 17:30 (EDT)

Barometric Pressure: 1000.2 mb

New London, CT - [Return to List](#)

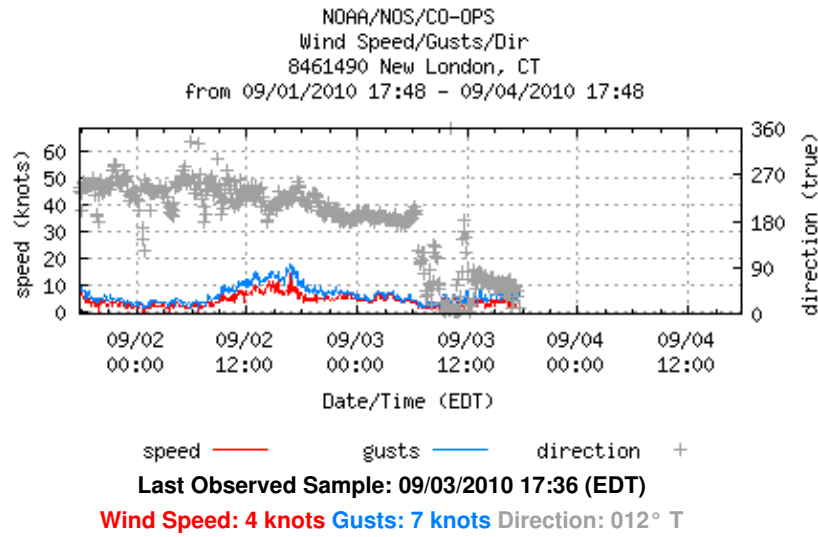


Last Observed Sample: 09/03/2010 17:36 (EDT)

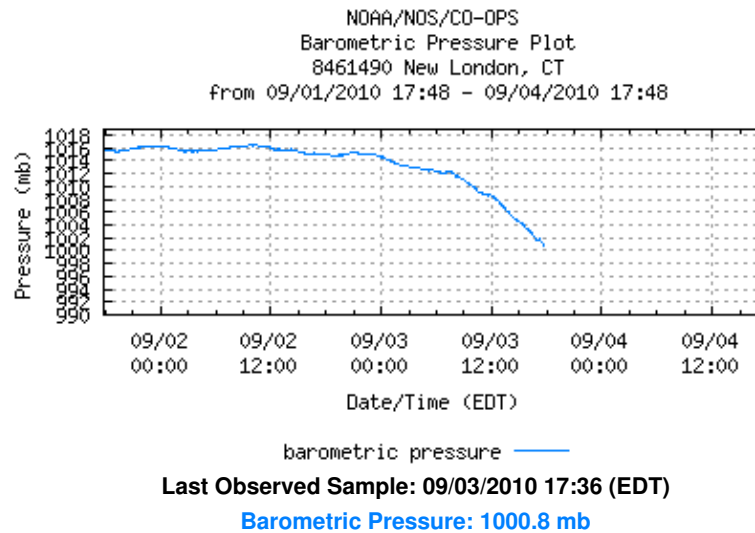
Relative to **MLLW**: **Observed: 3.89 ft.** **Predicted: 3.07 ft.** **Residual: 0.82 ft.**

Historical Maximum Water Level: Sep 21 1938, 7.53 ft. above **MHHW**

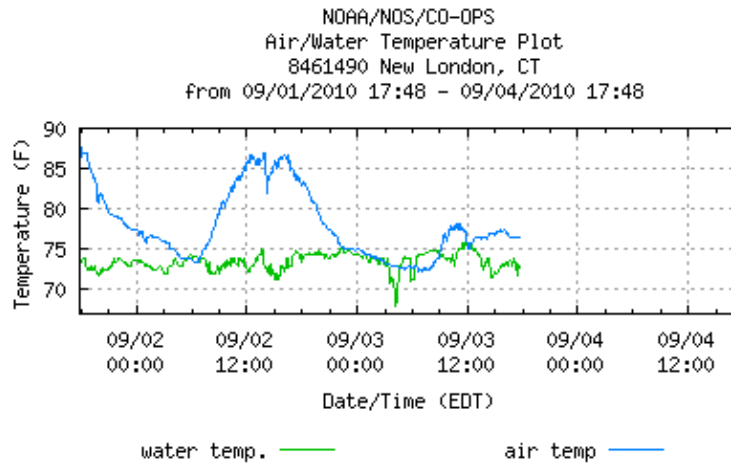
New London, CT - [Return to List](#)



New London, CT - [Return to List](#)



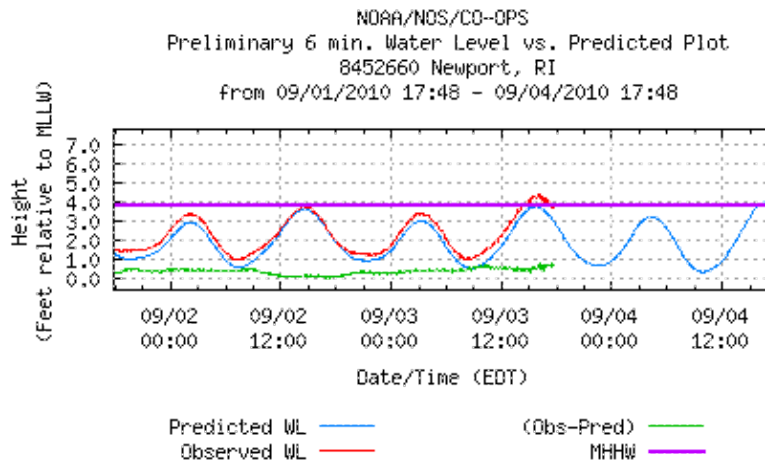
New London, CT - [Return to List](#)



Last Observed Sample: 09/03/2010 17:36 (EDT)

Water Temperature: 72.7° F Air Temperature: 76.5° F

Newport, RI - [Return to List](#)

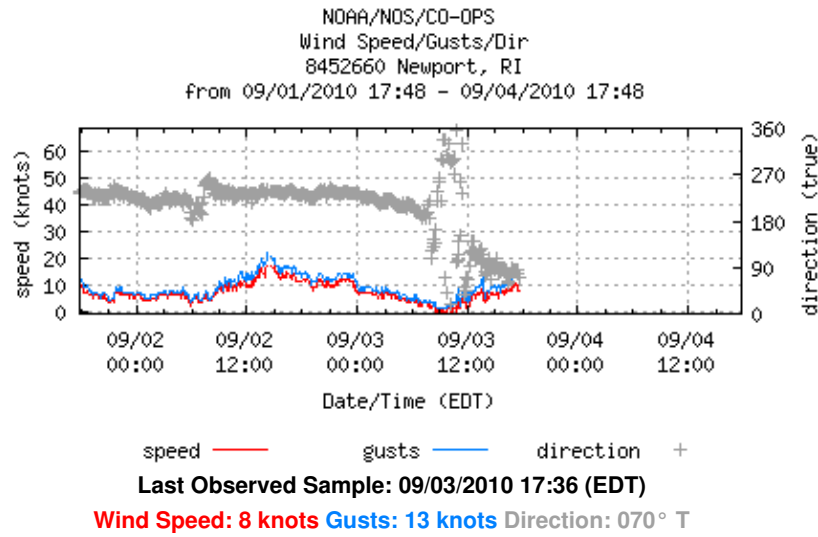


Last Observed Sample: 09/03/2010 17:36 (EDT)

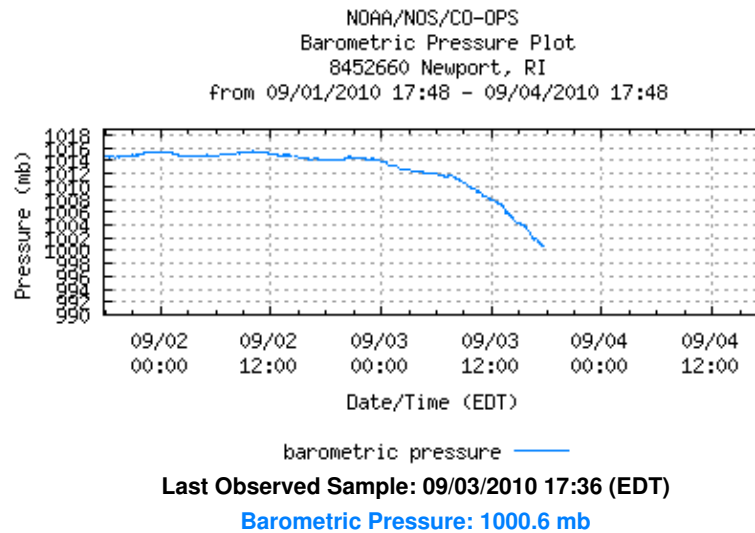
Relative to **MLLW**: Observed: 3.72 ft. Predicted: 3.02 ft. Residual: 0.70 ft.

Historical Maximum Water Level: Sep 21 1938, 9.46 ft. above **MHHW**

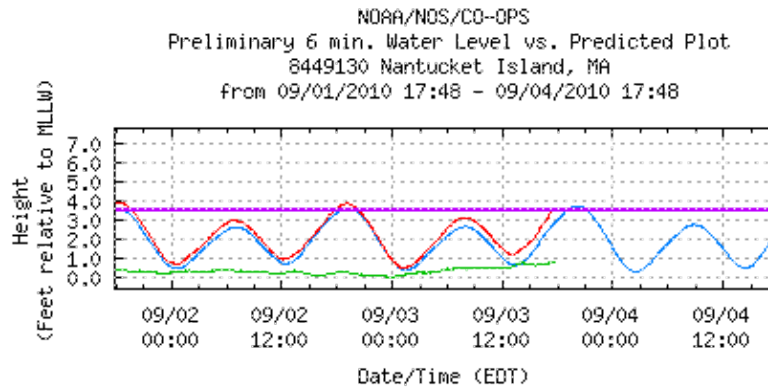
Newport, RI - [Return to List](#)



Newport, RI - [Return to List](#)



Nantucket Island, MA - [Return to List](#)

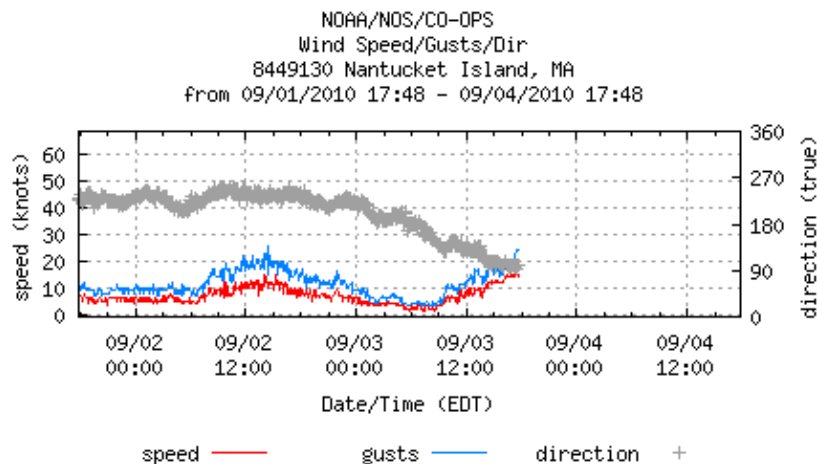


Last Observed Sample: 09/03/2010 17:36 (EDT)

Relative to **MLLW**: **Observed: 3.63 ft. Predicted: 2.82 ft. Residual: 0.81 ft.**

Historical Maximum Water Level: Oct 30 1991, 4.29 ft. above **MHHW**

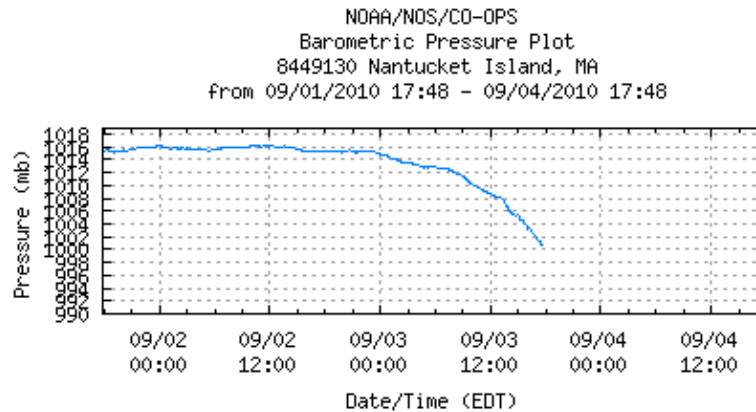
Nantucket Island, MA - [Return to List](#)



Last Observed Sample: 09/03/2010 17:36 (EDT)

Wind Speed: 14 knots Gusts: 24 knots Direction: 101° T

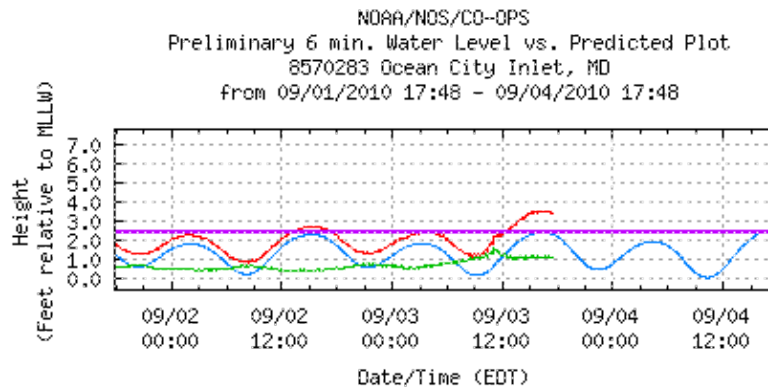
Nantucket Island, MA - [Return to List](#)



Last Observed Sample: 09/03/2010 17:36 (EDT)

Barometric Pressure: 1000.7 mb

Ocean City Inlet, MD - [Return to List](#)

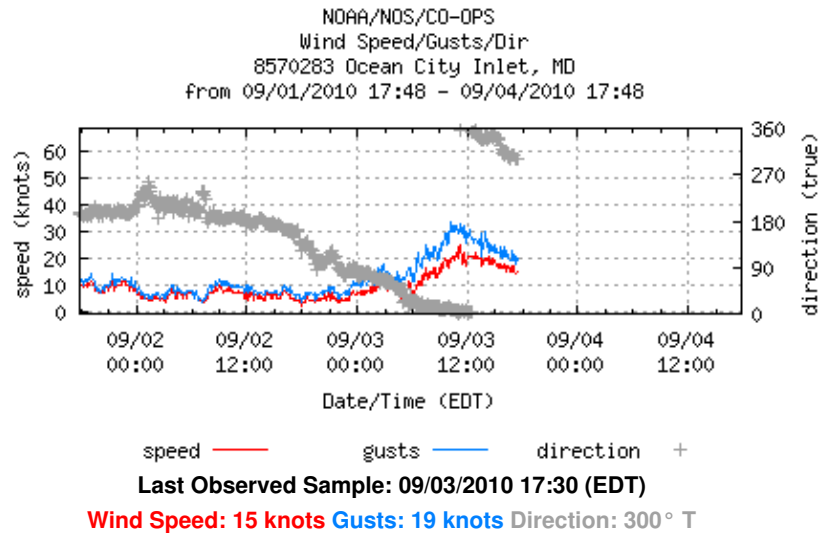


Last Observed Sample: 09/03/2010 17:30 (EDT)

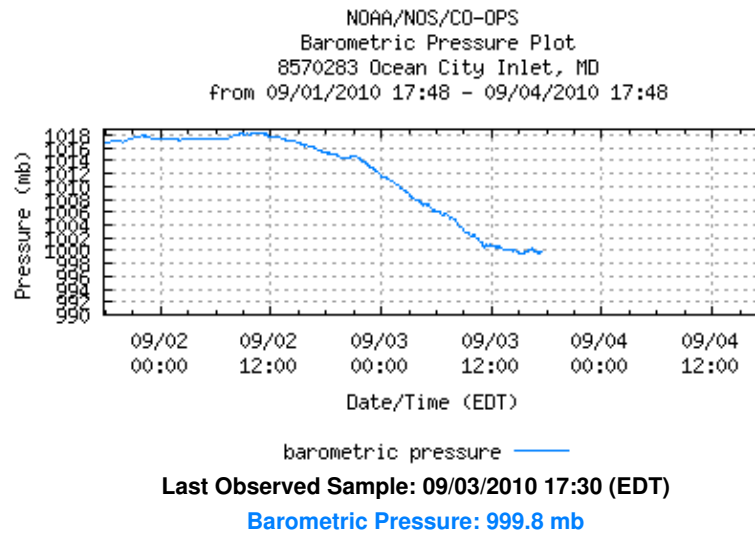
Relative to **MLLW**: **Observed: 3.41 ft.** **Predicted: 2.30 ft.** **Residual: 1.11 ft.**

Historical Maximum Water Level: Feb 5 1998, 3.6 ft. above **MHHW**

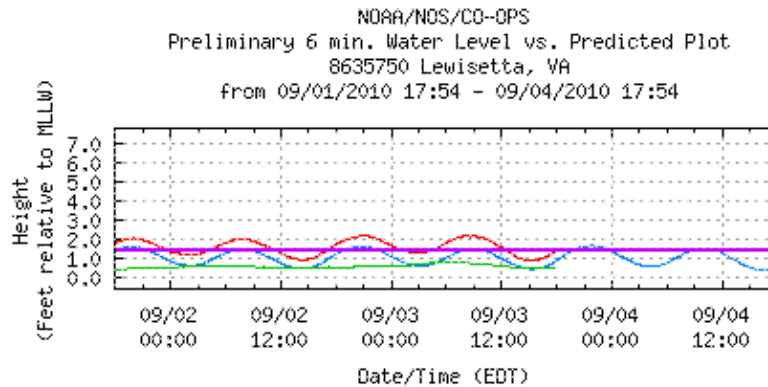
Ocean City Inlet, MD - [Return to List](#)



Ocean City Inlet, MD - [Return to List](#)



Lewisetta, VA - [Return to List](#)



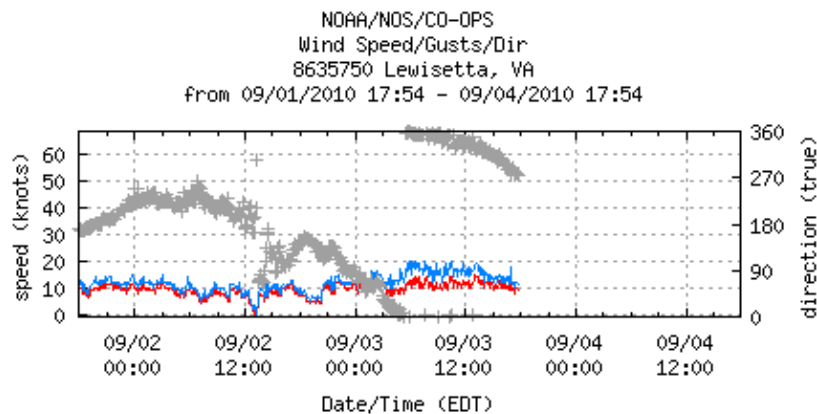
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 09/03/2010 17:42 (EDT)

Relative to **MLLW**: **Observed: 1.32 ft. Predicted: 0.79 ft. Residual: 0.53 ft.**

Historical Maximum Water Level: Feb 5 1998, 2.33 ft. above **MHHW**

Lewisetta, VA - [Return to List](#)

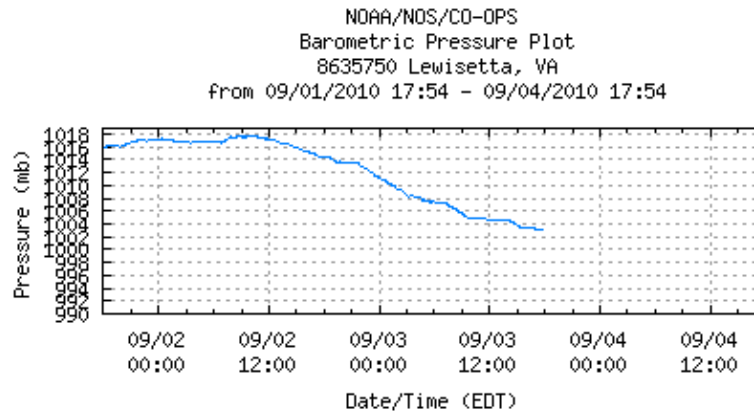


speed — gusts — direction +

Last Observed Sample: 09/03/2010 17:42 (EDT)

Wind Speed: 9 knots Gusts: 11 knots Direction: 276° T

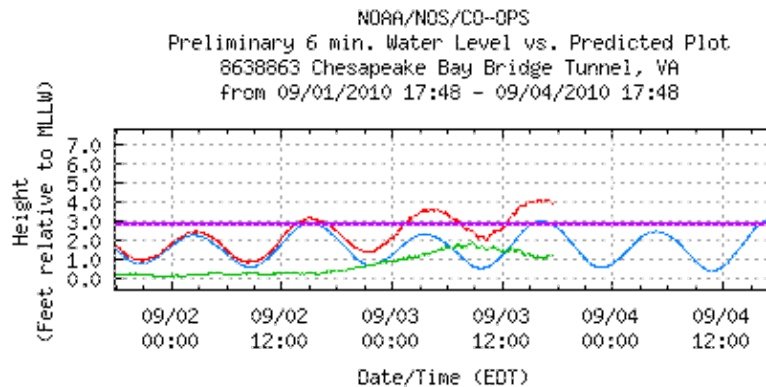
Lewisetta, VA - [Return to List](#)



Last Observed Sample: 09/03/2010 17:42 (EDT)

Barometric Pressure: 1003.0 mb

Chesapeake Bay Bridge Tunnel, VA - [Return to List](#)

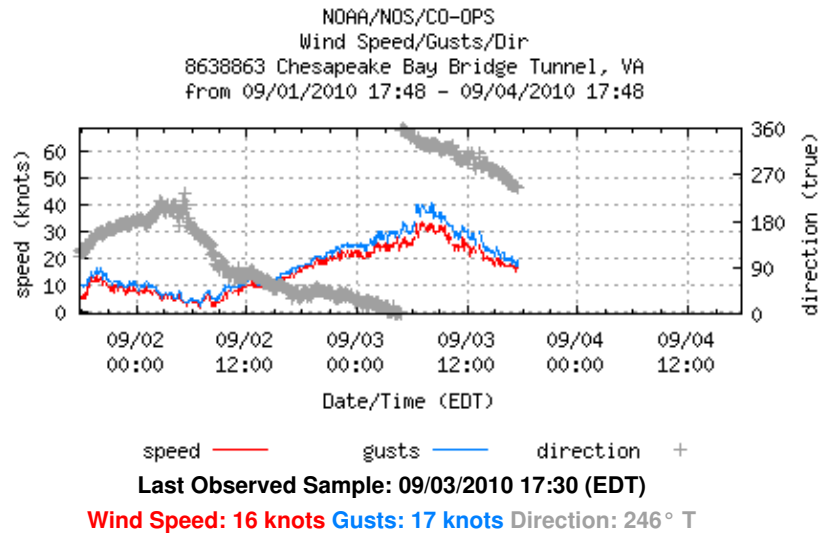


Last Observed Sample: 09/03/2010 17:30 (EDT)

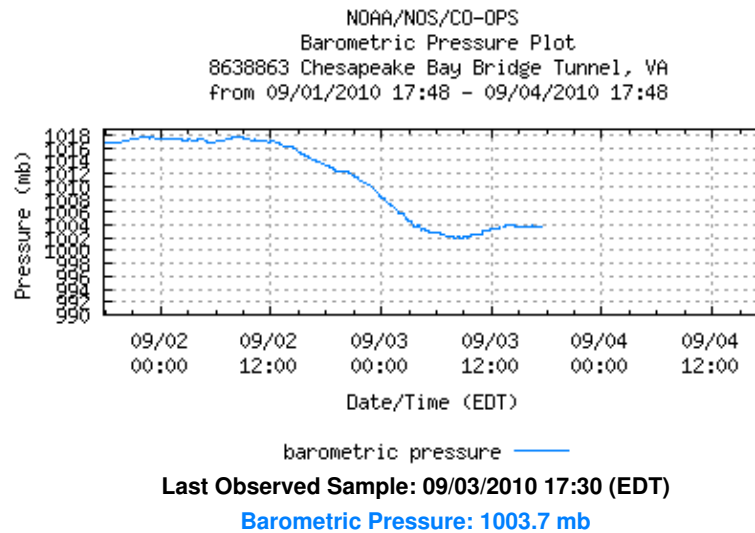
Relative to **MLLW**: **Observed: 3.92 ft.** **Predicted: 2.78 ft.** **Residual: 1.14 ft.**

Historical Maximum Water Level: Feb 5 1998, 3.68 ft. above **MHHW**

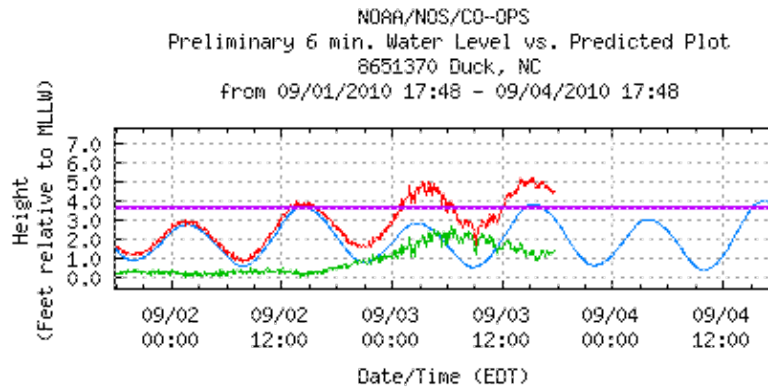
Chesapeake Bay Bridge Tunnel, VA - [Return to List](#)



Chesapeake Bay Bridge Tunnel, VA - [Return to List](#)



Duck, NC - [Return to List](#)



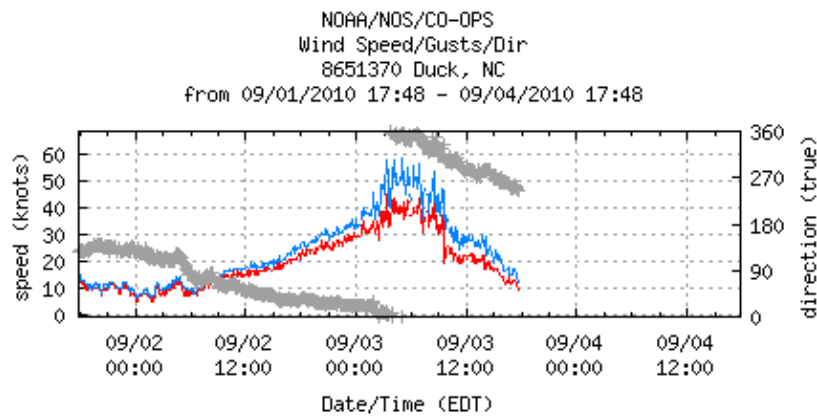
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 09/03/2010 17:36 (EDT)

Relative to **MLLW**: **Observed: 4.46 ft. Predicted: 3.09 ft. Residual: 1.37 ft.**

Historical Maximum Water Level: Aug 30 1999, 3.23 ft. above **MHHW**

Duck, NC - [Return to List](#)

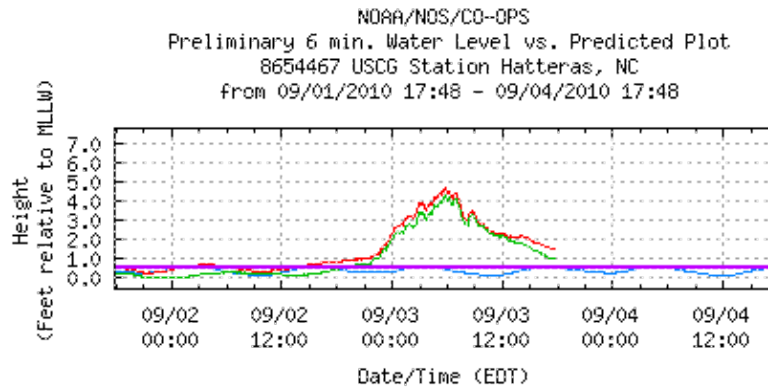


speed — gusts — direction +

Last Observed Sample: 09/03/2010 17:36 (EDT)

Wind Speed: 9 knots Gusts: 12 knots Direction: 246° T

USCG Station Hatteras, NC - [Return to List](#)

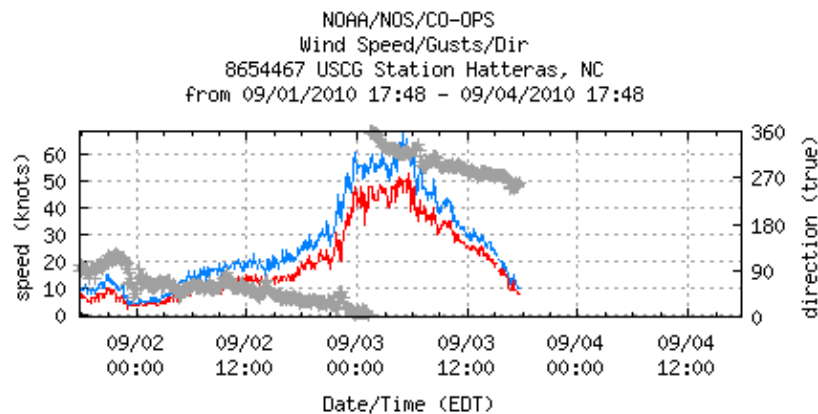


Last Observed Sample: 09/03/2010 17:36 (EDT)

Relative to **MLLW**: **Observed: 1.45 ft.** **Predicted: 0.51 ft.** **Residual: 0.94 ft.**

Historical Maximum Water Level: , 0 ft. above **MHHW**

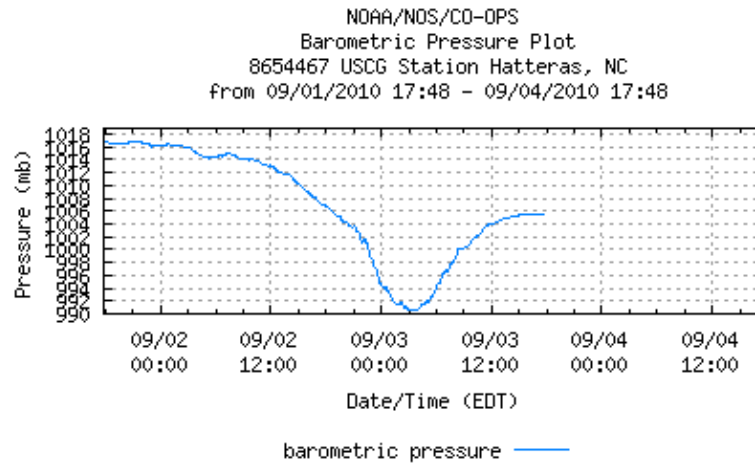
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Last Observed Sample: 09/03/2010 17:36 (EDT)

Wind Speed: 8 knots **Gusts: 10 knots** **Direction: 259° T**

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Last Observed Sample: 09/03/2010 17:36 (EDT)

Barometric Pressure: 1005.5 mb

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
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